

# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY

## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:  
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Date of mailing  
(day/month/year) **16 JUL 2008**

Applicant's or agent's file reference  
2540-1058

**FOR FURTHER ACTION**  
See paragraph 2 below

International application No. PCT/US 07/17699	International filing date (day/month/year) 09 August 2007 (09.08.2007)	Priority date (day/month/year) 10 August 2006 (10.08.2006)
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International Patent Classification (IPC) or both national classification and IPC  
IPC(8) - G06F 15/177 (2008.04)  
USPC - 709/220

Applicant **AVOCENT HUNTSVILLE CORPORATION**

**1. This opinion contains indications relating to the following items:**

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

**2. FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

**3. For further details, see notes to Form PCT/ISA/220.**

Name and mailing address of the ISA/US  
Mail Stop PCT, Attn: ISA/US  
Commissioner for Patents  
P.O. Box 1450, Alexandria, Virginia 22313-1450  
Facsimile No. 571-273-3201

Date of completion of this opinion  
**09 July 2008 (09.07.2008)**

Authorized officer:

Lee W. Young

PCT Helpdesk: 571-272-4300  
PCT OSP: 571-272-7774

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Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed.  
☐ a translation of the international application into \_\_\_\_\_ which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. ☐ This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing  
☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper  
☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed  
☐ filed together with the international application in electronic form  
☐ furnished subsequently to this Authority for the purposes of search

4. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

5. Additional comments:

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Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
<b>1. Statement</b>				
Novelty (N)	Claims	2 and 13		YES
	Claims	1 and 3-12		NO
Inventive step (IS)	Claims	None		YES
	Claims	1-13		NO
Industrial applicability (IA)	Claims	1-13		YES
	Claims	None		NO
<b>2. Citations and explanations:</b>				
<p>Claims 1 and 3-12 lack novelty under PCT Article 33(2) as being anticipated by US 2006/0161635 A1 to Lamkin et al. (hereinafter 'Lamkin').</p> <p>As to claim 1, Lamkin teaches a method of associating an interfacing module, having unique interfacing module identification data, connected to a network with a target network device connected to the network comprising the steps of: (a) coupling an interfacing module to a peripheral port of a target network device, having a network address, wherein the interfacing module identification data is communicated to and stored in a memory portion of the target network device (para [0051]-[0052], [0200]-[0201], [0218]); (b) at a remote location on the network: (i) determining the network address of the target network device (para [0245], [0255], [0290]); (ii) determining the network address of the interfacing module (para [0200]-[0202], [0245], [0255]); and (iii) using the network address of the target network device to read the interfacing module identification data from the memory portion of the target device via the network (para [0049], [0052], [0200]-[0202]).</p> <p>As to claim 3, Lamkin teaches a method wherein coupling an interfacing module to a peripheral port of a target network device includes coupling the interfacing module to a USB type port of target network device (para [0218], [0283], [0305]).</p> <p>As to claim 4, Lamkin teaches a method wherein said interfacing module identification data includes: (a) a product ID (para [0175], [0184]); and (b) a serial number (para [0201]).</p> <p>As to claim 5, Lamkin teaches a method further comprising the step of: at the same remote location, monitoring when an interfacing module becomes associated with a new target network device (para [0200]-[0202], [0234], [0289]).</p> <p>As to claim 6, Lamkin teaches a method wherein said monitoring step further comprises creating a log file (para [0072], [0103]-[0104]).</p> <p>As to claim 7, Lamkin teaches a virtualized desktop system comprising: (a) a network (para [0161]); (b) a target device that communicates data through a peripheral port (para [0047]-[0049], [0218]); (c) a digitalizing interface module configured to be coupled to said target device at said peripheral port to interface data from said peripheral port to said network (para [0200]-[0202], [0218]); (d) a digital user station, connected to said network, configured to communicate with the target device via said network using said digitalizing interface module coupled to said target device (para [0047]-[0049], [0174]); (e) a target device database storing a list of target device identifiers, network addresses of the target devices, and information associating digitalizing interface modules coupled to respective ones of the target devices, a module database storing a list of interfacing module identifiers associated with said digitalizing interfacing modules (para [0049], [0051], [0128], [0209]); and (f) a management application that associates a digitalizing interface module to a target device when the digitalizing interface module is coupled to said target device (para [0047], [0199]-[0202]).</p> <p>As to claim 8, Lamkin teaches a virtualized desktop system wherein said target device comprises a memory portion that receives and stores an interfacing module's identification data when an interfacing device is coupled to said target device (para [0051]-[0052], [0200]-[0201]).</p> <p>As to claim 9, Lamkin teaches a virtualized desktop system wherein said interfacing module identifiers include: (a) a product ID (para [0175], [0184]); and (b) a serial number (para [0201]).</p> <p>As to claim 10, Lamkin teaches a virtualized desktop system wherein said peripheral port is a USB type (para [0218], [0283], [0305]).</p> <p>As to claim 11, Lamkin teaches a virtualized desktop system wherein said management application monitors when interfacing modules are coupled to respective target devices by creating a log file (para [0072], [0200]-[0202], [0289]).</p> <p>As to claim 12, Lamkin teaches a virtualized desktop system wherein said management application associates each interfacing module to respective target devices when the interfacing modules are coupled to said target devices by associating interfacing module identifier with target device network addresses (para [0199]-[0202]).</p> <p>(See Supplemental Box)</p>				

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Continuation of:  
Box No. V — Reasoned Statement  
2. Citations and Explanations:

Claims 2 and 13 lack an inventive step under PCT Article 33(3) as being obvious over Lamkin in view of US 2004/0122931 A1 to Rowland et al. (hereinafter 'Rowland').

As to claim 2, Lamkin does not explicitly teach a method further comprising the step of: creating an alpha-numeric identifier for the interfacing module based on a unique alpha-numeric identifier of the target device. However, Rowland does teach a method further comprising the step of: creating an alpha-numeric identifier for the interfacing module based on a unique alpha-numeric identifier of the target device (para [0006], [0031]-[0033], [0039]-[0040]). It would have been obvious to one of ordinary skill in the art to utilize a method further comprising the step of: creating an alpha-numeric identifier for the interfacing module based on a unique alpha-numeric identifier of the target device as taught by Rowland because in order to provide methods, systems and apparatuses for use in managing content on at least a local network as taught by Lamkin capable of improved module identification and management, thereby increasing reliability and hence increasing the overall performance of the combined system.

As to claim 13, Lamkin does not explicitly teach a virtualized desktop system wherein said management application associates interfacing modules to respective target devices when said interfacing modules are coupled to said target devices by creating an identifier for the interfacing module by combining said target device identifiers and respective interfacing module identifiers. However, Rowland does teach As to claim 13, Lamkin teaches a virtualized desktop system wherein said management application associates interfacing modules to respective target devices when said interfacing modules are coupled to said target devices by creating an identifier for the interfacing module by combining said target device identifiers and respective interfacing module identifiers (para [0006], [0008], [0020]-[0021], [0040]). It would have been obvious to one of ordinary skill in the art to utilize a virtualized desktop system wherein said management application associates interfacing modules to respective target devices when said interfacing modules are coupled to said target devices by creating an identifier for the interfacing module by combining said target device identifiers and respective interfacing module identifiers as taught by Rowland because in order to provide methods, systems and apparatuses for use in managing content on at least a local network as taught by Lamkin capable of improved module identification, management and control, thereby increasing reliability and hence increasing the overall performance of the combined system.

Claims 1-13 have industrial applicability as defined by PCT Article 33(4) because the subject matter claimed can be made or used in industry.